

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Brian K7ON Short <ke7gh@primenet.com>
Subject: [16028] ** SG-2020 Group Buy Forming **
Message-ID: <3.0.1.32.19970329224400.006cb1a0@mailhost.primenet.com>

Howdy Folks,

Wanna get in line for the latest commercial QRP marvel? Please read below information regarding the SG-2020 CW/SSB transceiver...

If you will have interest in Sept 1997 (start saving those pennies), let me know soon so that I can contact SGC with my (our) intentions and determine what incentive they will provide!

73, Brian Short K7ON xKE7GH (602)839-3484 "Nee!"

I requested info on the QRP++ from Index Labs in March and received a flier from SGC this week. Cover letter sez "SGC is presently working with INDEX to develop an advanced version of the QRP PLUS transciever, which will emerge as the SGC Model SG-2020.

The new SG-2020 will be much smaller and lighter than the PLUS and the power will be adjustable from 0 th 20 watts. Several new features will be added to enhance the performance and capability of the unit, including a highly effective noise blanker!"

They say it will be manufactured and marketed by SGC & target date for delivery is Sept. 97. Spec sheet looks about the same as QRP++ except for VOGAD baseband processing, power output, size 2.5x6x6 inches, weight 24 oz, backlit display, RS-232 hardware interface and passband tuning. Price is given as \$595.

Their web page is www.sgcworld.com but not sure if info is on it yet. I have no connection with SGC or Index Labs.

Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484 k7on@qsl.net

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Pete Rossi <wa3nna@resuba.com>
Subject: [15999] 20 METER QRP BEACON - EASTER SUNDAY 03/30
Message-ID: <199703291758.MAA30475@resuba.com>

Later this spring, I plan to run full-weekend a QRP beacon on 20 meters

much like the previous beacons run on 80 and 40 meters.

As a prelude to this, I am planning to run a short test beacon this weekend on Easter Sunday - March 30 1997.

The purpose of this beacon is to get a feel for how well the power levels can be heard so I can pick the most effective power levels to use for the full-weekend beacon that will be run - probably sometime in April.

----- WA3NNA/B 20 METER QRP TEST BEACON ANNOUNCEMENT -----

START TIME : 1300 UTC Sunday 30 MAR 1997 (8 AM EST Sunday morning)

END TIME : 0100 UTC Monday 30 MAR 1997 (8 PM EST Sunday evening)

FREQUENCY : 14062 KHz

OUTPUT POWER : Power will cycle through 5 different levels, 2 minutes at each power level; 4 minutes at the 200 uW level.

----- MINUTES PAST THE HOUR -----					POWER LEVEL
00-02	12-14	24-26	36-38	48-50	2 W
02-04	14-16	26-28	38-40	50-52	200 mW
04-06	16-18	28-30	40-42	52-54	20 mW
06-08	18-20	30-32	42-44	54-56	2 mW
08-12	20-24	32-36	44-48	56-60	200 uW

Each level represents a 10 dB drop from the higher level.

These times should be very accurate, however, keep in mind that the power level will not change to the next level until the previous message has finished sending.

LOCATION : Newtown Square PA FM29hx (about 15 miles west of Philadelphia)

MESSAGE : VVV VVV xx MW <4_letter_code_word> DE WA3NNA/B QRP
Sent at aprox 15 WPM. Unique codeword for each power level.
The codeword will be repeated TWICE at the 200 uW level.

ANTENNA : Tri-band rotatable dipole @ 70' oriented for 65/245 degrees.
Nulls off the end will be at 155/335 degrees.

REPORTING : Please send all beacon reports to BEACON@pete.resuba.com

Detailed signal reports, receiver and antenna info, etc are very much appreciated but PLEASE do not bury your codeword reports inside a lot of lengthy text. It takes forever to extract the information that way.

So, PLEASE include a separate text block with your report containing the following information for the lowest power level copied:

YOUR CALL & NAME
YOUR LOCATION
CODEWORD & POWER LEVEL
DATE/TIME
SIGNAL REPORT

Canadian and other DX stations, please send mailing address + long/lat coordinates of your location.

Certificates acknowledging the lowest power level at which you correctly copy the codeword will be available following the full weekend beacon session that will follow. In other words, a separate batch of certificates will not be run for this beacon session, however, they will be included in the next batch. This may change depending on the number of reports received.

Please spread the word about this beacon through whatever means available.

OK West Coast and DX, this is your chance to out shine the East Coast regulars on 80 and 40!

Good luck & 73,

Pete Rossi - WA3NNA QRP-L #459
wa3nna@pete.resuba.com
beacon@pete.resuba.com

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Rick Hadley" <r.hadley@www.mebbs.com>
Subject: [15951] 38S DXCC
Message-ID: <3.0.1.32.19970328202655.0068bda4@www.mebbs.com>

Well, the hunt gets more interesting all the time. W0FG's now up to 14,

with tonight's additions of CU2AR, V21CW, LU5VC, C56/DK3FW, and HK0ER. Not a bad night's work and 14 in a week speaks pretty well for the receiver in the 38S. I'm sure it's every as bit as hot as the one in the FT757, which has been gathering dust all week!! I'm still behind in the race though, as I just heard KD7S work R1ANF, so that's 15 or 16 at least for Bill. Maybe I can stay up tonight and catch one of those ZL's that keep waking me up about Oh-dark-thirty.

Rick Hadley, W0FG
Life Member ARRL
QRP-L #1019
r.hadley@www.mebbs.com

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [15945] 50/40/30 Schedule
Message-ID: <199703290009.SAA16548@multi13.netcomi.com>

Don't forget!

Fifty States on 40 and 30 coming up:

April 1 (local US date) Colorado Marshall W0CQC (special call!)

April 3 (local US date) New York Mark N2VPK and Rick WZ2T

times, as usual, are (UTC):

0000-0200 30 meters
0200-0400 40 meters

Enjoy!

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: John Seboldt <rohrwerk@pconline.com>
Subject: [15988] 74HC and 74HCT
Message-ID: <Pine.LNX.3.91.970329101750.11316A-1000000@newton.pconline.com>

Others have replied nicely to Claton about the details of compatibility between these two families.

I'll only share another experience. I used a buffer circuit from QST a

while back (the "remote oscillator VFO") which used the 74HC240. This circuit uses one section to square up the VFO waveform, and the other sections in parallel for output power capacity. Well, the Rat Shack only carries HCT parts. I tried the 74HCT240, and it worked, but the square wave was asymmetrical. Subbing the specified 74HC240 made for a proper square wave.

Just another way of saying 'yes, there is a difference...'

John K0JD

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Paul Stroud <aa4xx@amsat.org>
Subject: [15993] 80M Roundtable Report
Message-ID: <333D4757.4C0A@amsat.org>

Hi Gang,

The KnightLites welcome you to check into the weekly Roundtable Net each Sunday night, beginning 9:30PM EST local time. We meet on 3686.4 KHz and would enjoy hearing from you this coming Sunday night... Listen for the KL callsign, WQ4RP. We typically have check-ins from throughout the East Coast (including VE3-land) thru the mid-West.

This past Sunday, we welcomed newcomer K8CV, Walt from Royal Oak, MI. Roy was booming in with his QRP+ and windom. Conditions were very good this past weekend, with lots of strong signals from fellow KnightOwls. The following folks joined us this past weekend:

KC4MHM	Ed	Tallahassee, FL	4W	549	"Wx super this weekend"
K1CL	Chuck	Chelmsford, MA	4W	599	"Good skiing wx"
VE3SP	Ron	Hamilton, ON	50W	599	"Vy cold and going down- Send us some heat!"
AE4IC	Bob	Greensboro, NC	5W	599	"Condx good
tonight-Can't					tell
difference between VE3					
					and locals in RST."
K8CV	Walt	Royal Oak, MI	5W	599	
WJ4P	Randy	Summerville, SC	1W	599	"Copy K1CL 579"
K4GT	Jim	Atlanta, GA	5W	599	"Have a good week"
K4WZ	Ron	Forest Park, GA	4W	599	"Built Pixie 2. Local BC getting me-HI!"
K2SJB	Dave	Ithaca, NY	5W	599	"Running 5W tonight to EMTEC Z match--WJ4P is 579"
WA8LCZ	Byron	Warren, MI	5W	439	"Running Kenwood to

GAP						Titan Vertical"
WA4NID	Dave	Durham,	NC	5W	599	"Working on Sierra for Portsmouth Is. Expedition"
VE3JC	John	Delaware,	ON		599	"Lunar eclipse starting here"
just						
VE3VAW	Brien	Toronto,	ON	5W	599	
N2TNN	Dean	Somerset,	NJ	4W	599	"Am trying to figure out if tuner is working. Wx warm"
WB0CLD	Bill	St. Charles,	MO	1.5W	549	"Just looked at eclipse"
WB4LZQ	Kim	Piedmont,	SC	20W	599	
AA4XX	Paul	Raleigh,	NC	5W	(NCS)	

After the net was over, my wife and I stepped outside to see the lunar eclipse. What a beautiful sight! We'll be looking forward to hearing from you all this coming Sunday night.

72,
Paul, AA4XX

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Len W. Tough" <len@infinet.com>
Subject: [15972] Another Beacon Copy!
Message-ID: <199703291406.JAA25417@mail1.infinet.com>

Congrats to Robert L Stolzle, AC5AM, for succesfully copying the CQrp Easter Beacon from Louisiana!

Not bad for 50mw to a windom dipole, in Columbus, Ohio, eh? Propably only have about 25mw ERP by the time the long run of coax is done with it!

Gud Job Bob!

Again FYI

Freq. 7033.3 every three minutes

Copy Beacon and send to me via email, you get a certificate for succesful Beacon Copy - Beacon ends on Sunday at 17:00 z

Gud Luck

Best 72/3
Len
KG8SF
len@infinet.com

KG8SF@key.com

QRP-L # 841 CQrp # 2 ARCI # 9025 FISTS # 2134

HF Digital Communications - CW/Pactor/G-Tor/RTTY/Amtor
CHARTER MEMBER - THE COLUMBUS QRP CLUB - *CQrp*
Web Page: <http://www.infinet.com/~len>
QRP Homebrew Rigs = OHR 400, S&S TAC-1, NORCAL 38S, SWL GM-15,
Kanga Any Band Xmitter, Bare Essential 50c5 Xmitter

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: n0tu <n0tu@webaccess.net>
Subject: [16006] Antenna theory?? Book??
Message-ID: <333D66E3.DC5@webaccess.net>

Anyone recommend a good resource book that demistifies antenna theory...for the non-rocket-scientist types? I figure it's time to learn more what happens to my signal once it leaves the PA and gets transformed thru the matchbox to the ant. Seems this end of things has more impact on the one's signal than the other origination end!
Tks in advance for your recommendations.....Steve

"Just doing it" - Havin'a blast buildin'& usin' QRP gear that is...
n0tu/hw8/49er/SW40/38s/solar/backpack-mobile... QRP-L # 911
My homepage - <http://www.webaccess.net/~S&P> ARS# 206 CQC# 394

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: kc4mhm@juno.com (ed miller)
Subject: [15989] ARRL CD-ROM
Message-ID: <19970318.054309.4967.1.KC4MHM@juno.com>

Marty & gang;

The XYL got me the CD-ROM version of the Handbook for a Christmas present. It seems very good and the look-up or search feature is handy. Several new items are good as is the editable print feature. You can cut and paste info you are interested in and print only what you want, a nice reference feature. I had a problem with loading the enclosed software. After loading the software I got a command to insert installations disc 1. There is no disc 1 included and after four phone calls to ARRL I have decided to use this as a learning experience, which of course will be

applied to future purchases.

All in all, the CD is nice and quite handy but some how it is not the same as using a book. I suppose this says more about me than it does about the book.

73 from ED KC4MHM@juno.com

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: n4so@juno.com (CHARLES K BROWN)

Subject: [15978] Beacons

Message-ID: <19970329.084704.4383.15.n4so@juno.com>

This is an opinion -- any beacon should be sent as a continuous string
-- no stops.

Ken Brown, N4SO
QTH Near Mobile, AL
QRP-L #622
n4so@juno.com

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: "Len W. Tough" <len@infinet.com>

Subject: [16013] CQrp EASTER BEACON

Message-ID: <199703292012.PAA02992@mail1.infinet.com>

Hi Gang:

Wow, so far, lost of gud copy of the CQrp Easter Beacon. Thanks to those list members that took the time, made the copy, and sent me a report. Your BEACON Copy certificates will be mailed to you.

To make it a little more sporting (after all, we are talking about only 50mw!!!), I have increased the frequency of the beacon slightly. Hang in there. You can copy it! ;-)

Again:

Frequency: 7033.3

Power output: 50mw

There is a 20 second pause between beacons - each beacon message lasts 70 secs.

Gud Luck

Send copy to
Len@infinet.com

Best 72/3

Len

KG8SF

len@infinet.com

KG8SF@key.com

QRP-L # 841 CQrp # 2 ARCI # 9025 FISTS # 2134

HF Digital Communications - CW/Pactor/G-Tor/RTTY/Amtor

CHARTER MEMBER - THE COLUMBUS QRP CLUB - *CQrp*

Web Page: <http://www.infinet.com/~len>

QRP Homebrew Rigs = OHR 400, S&S TAC-1, NORCAL 38S, SWL GM-15,
Kanga Any Band Xmitter, Bare Essential 50c5 Xmitter

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: n0acs@juno.com (John R. Morris)

Subject: [15986] CRYSTAL GROUP BUY

Message-ID: <19970329.100047.8183.0.N0ACS@juno.com>

Hi Gang,

Bowing to pressure from a friend of mine in Kansas City, I'm
going to offer the QRP-L a group buy on FT-243 crystals for the month of
April.

Here's the deal: General 40 mtr. pack of 5 crystals: 7030 7035 7040 7045
7050 Khz. @ \$24.00 Postpaid.

General 40 mtr. pack of 7 crystals: 7030
7035 7040 7045 7050 7055 7060 Khz. @ \$33.60 Postpaid.

Novice/tech. 40 mtr. pack of 5 crystals:
7105 7110 7115 7120 7125 Khz. @ \$24.00 Postpaid.

Novice/tech. 40 mtr. pack of 7 crystals:
7105 7110 7115 7120 7125 7130 7135 @ \$33.60 Postpaid.

That's a 20% discount off the regular crystal price of \$6.00 each plus

\$2.00 in postage.

In order to offer this pricing discount I need at least 75 orders. If you'd like to take advantage of this special offer e-mail me at n0acs@juno.com

Thanks, John Morris N0ACS

Phoenix Crystals

1714 North Ash Street

Nevada, MO 64772

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: john andrews <jm165723@eee.org>
Subject: [16017] Crystal site: Under construction
Message-ID: <333D8773.45CB@eee.org>

Hi Folks:

new site(very much under construction).

<http://www.mhelectronics.com>

Email- THEHAMMERS@aol.com

Nice Mom & Pop organisation. Have dealt with them for years and like the quality and service.Great crystals at fair prices.

Usual disclaimers.

72, John- N5INZ

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: k4wz@juno.com (RON L TODD)
Subject: [16027] DX VK9NS
Message-ID: <19970330.172953.13895.26.k4wz@juno.com>

CALL correction VK9NS Norfolk Is.

RON TODD K4WZ ex AE4LQ, KE4RZR, WA4EPC
K4WZ@JUNO.COM OR K4WZ@WORLDNET.ATT.NET
FISTS #2109, ARCI # 9273, QRP-L # 924 ARRL LIFE MEMBER

FT-1000D, QRP+, HOMEBREW TEN-TEC 40 M, PIXIE2.
ANT. C4XL UP 100 FT. 80 M LOOP UP 45 FEET

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: n4so@juno.com (CHARLES K BROWN)
Subject: [16030] DX -- Gabon
Message-ID: <19970329.174600.4423.3.n4so@juno.com>

TR8BAR Jean on 14.005 2100z - 2200z....
QSL to Box 177 , Libreville, Gabon
Easy to work and not many callers.
Also V21CW Antigua/Barbuda on 14.008 at 2200z.

Ken Brown, N4SO
QTH Near Mobile, AL
QRP-L #622
n4so@juno.com

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: k4wz@juno.com (RON L TODD)
Subject: [16021] DX NORFOLK ISL
Message-ID: <19970330.164130.13895.23.k4wz@juno.com>

Just worked Jim VK0NS in Norfolk island....10 watts SSB
15 METERS 21.282 MZ

RON TODD K4WZ ex AE4LQ, KE4RZR, WA4EPC
K4WZ@JUNO.COM OR K4WZ@WORLDNET.ATT.NET
FISTS #2109, ARCI # 9273, QRP-L # 924 ARRL LIFE MEMBER
FT-1000D, QRP+, HOMEBREW TEN-TEC 40 M, PIXIE2.
ANT. C4XL UP 100 FT. 80 M LOOP UP 45 FEET

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [16015] For sale: Argo 556, mics, DSP, much more
Message-ID: <Pine.3.89.9703291506.B31085-01000000@w3eax.umd.edu>

Time to clean out a few closets again!

1) Ten-Tec Argo 556, four months old. Original box, manual, and one module (your choice). New condition. \$489 new, asking \$420. SSB/CW.

Under 5 lbs. Digital freq. readout, keyer, SWR/watt meter, etc.

Make your own package:

Modules - 80, 40, 30, 20, 15, 10 meters, all in new or exc. cond. \$23 ea.

Hand mic (mdel 700C, 4 months old). \$20.

2) S&S Ark 20 20m CW QRP rig. Pushbutton tuning, exc. cond. With keyer as well as Ramsey 20w amp (FREE! with purchase). Manuals incl. \$280 for package.

3) MFJ-784B DSP unit, exc. cond. with manual, \$185.

4) Yaesu MD-1C8 Desk mic, like new with box. \$130 new, asking \$90.

5) COMET SMA-3 antenna SOLD

6) Spi-ro 20/40m trap dipole, half like new (indoors) half weathered (outdoors), \$30.

7) Astatic D-104 with T-UG-8 stand. Stand a bit imperfect, mic in exc. shape. With PJ-068 collins plug. \$45.

8) Ramsey PA-10 2m amp, preamp removed. Box, manual, exc. cond. \$40.

9) Yaesu NC-50 1-hr charger with CA-14 charging cups for the FT-10/40/50 radios. New condition in box, sells for \$130 new, asking \$105. Hardly used.

Interest? Let me know! Thanks! All prices plus shipping, but haggling perfectly acceptable.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 140 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: k4wz@juno.com (RON L TODD)
Subject: [16011] FORCE 12 C4XL
Message-ID: <19970330.145453.13895.19.k4wz@juno.com>

Some one ask me about my C4XL and i accidently erased msg...

RON TODD K4WZ ex AE4LQ, KE4RZR, WA4EPC
K4WZ@JUNO.COM OR K4WZ@WORLDNET.ATT.NET
FISTS #2109, ARCI # 9273, QRP-L # 924 ARRL LIFE MEMBER
FT-1000D, QRP+, HOMEBREW TEN-TEC 40 M, PIXIE2.
ANT. C4XL UP 100 FT. 80 M LOOP UP 45 FEET

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Jess Gypin <jessqrp@concentric.net>
Subject: [15968] Got the new kit bug.
Message-ID: <333D13CA.4DD7@concentric.net>

One of the dilemmas that I face all the time in this hobby is which radio to build next. Which antenna coil kit to buy. What to sell or fix in order to get the money.

I just finished the 38S about 2 weeks ago and have it pretty much done. 5 watt mod and Tick chip, put it in a RS modem/project box and all and it works pretty good. The only thing that is a bit different on mine is that even with the 6.8 uh coil installed, the tuning range did not increase that much but I have 10100 to 10118 so not too bad. I did install a trimmer cap in line with the coil to bring the bottom of the tuning range to 10100, with the 6.8 uh coil in it would start the tuning at 10064.

Still had the building bug after finishing that and a couple of bucks. I pondered over a couple of different kits. It is hard to decide if you want to build a large project like the multi band OHR 400 or Sierra. Already have the OHR 400 and the Sierra with all the stuff is a lot of bux! Or do you build yet another mono band kit like the ones that you already have that you know are gonna be good performers instead of taking a chance on something new? Part of the fun of this hobby is building different rigs. I have built a few and sold a few based on bang for the buck and likes and dislikes. The last mon band rig that I built was the Emtech NW40 and it is a super rig for the money. 5 watts out, ABX, rit, nice QSK although mine has a tiny thump on keying, great! receiver with the audio filter installed, a little hissy without it.

So do I build another of one fo the same or something entirely new? I do not just buy a kit to build it. I like to consider all of the features and price and then get it if I think it will be a keeper. There have been a few that I thought I would like and sold them for minor flaws. I have also determined that although I like to QRPp, I want to be able to turn the wick up if I want to instead of being stuck at 1 or 2 watts when the bands are bad. I alos like a narrow and selective single signal receiver. The 38S is great but the band sounds like solid signals from end to end when the band is open due to the wide receive and "DC like"

characteristics. So where is this ramble headed? What to build. The new Tentec 1330 showed up today. Really nice looking box and is still sitting here in the shrink wrap. What is keeping me from opening it and diving in? Great manual too by the way, one of the nicest that I have seen. The fact that the bandpass on the 4 pole crystal filter is 1 k, that is what. I know that I am picky, but if I build it and then don't like the bandpass, then I can either mod it, use the add on SCAF that I have, or sell it. Or I can not open it and send it back and then struggle for more days of what to build next. I think that with all of the rigs that are out there, there is not a perfect rig for me. If there was it would be boring to build one for 30 meters and one for 40 meters and then be left with nothing else to build. Yes, I know that there are other bands, but for mono nbd rigs, that is all there is as far as my operating habits are concerned. And if the rig is a keeper, they get kept. I still have the A&A 30 meter rig that started all of this QRP madness for me 5 years ago and it still gets used and still is a FB rig.

Dilemmas and quandries!

Best
Jess NOTFI

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: kh6b@juno.com (Dean W Manley)
Subject: [15992] Hamcalc Software
Message-ID: <19970329.064040.5391.1.kh6b@juno.com>

I have noted for at least the last several days that questions may be answered by using the free software "HAMCALC" by VE3ERP. See November 1996 CQ p.9 article by VE3ERP. I have version V24 and find it very useful. Example was a recent question about a log-periodic antenna design. With Hamcalc you custom design one to suit your needs.

To obtain the disk...
Send \$5.00 check or money order to help defray costs for disks, mailers, postage, etc. to:

George Murphy VE3ERP
77 McKenzie Street
Orillia, ON L3V 6A6
Canada

73 and Aloha, Dean Manley KH6B
ARRL Life Member, ARCI 6257,
QRP-L 1032, HI-QRP 1, NorCal ??, QCWA
BK29KP Hilo, Hawaii < kh6b@juno.com>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: mdwatt@usit.net (Marty Watt)
Subject: [15959] Handbook vx. CD-ROM
Message-ID: <333d9ef6.11305742@smtp.usit.net>

With the upcoming Tupelo hamfest, I may find the 1997 Handbook or
the CD-ROM pretty cheap. Anybody know if the CD-ROM is the complete
1997 text? or an earlier model?

I sent a message to HQ, but assume they are shut for today and the
weekend ...

72 es 73 de=20
Marty, KM7W

Jackson, Tennessee e-mail: mdwatt@usit.net
http://www.public.usit.net/mdwatt
"The Curmudgeon's Corner"
NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq
~~~~~

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Dick Schneider <rschneid@ix.netcom.com>  
Subject: [15963] HW-8 SOLD  
Message-ID: <333CAAF1.7103@ix.netcom.com>

HW-8 SOLD.

Dick AB0CD..

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Dick Schneider <rschneid@ix.netcom.com>  
Subject: [15965] HW-9 Station Sold  
Message-ID: <333CAB0F.1C31@ix.netcom.com>

HW-9 Station sold.

Dick AB0CD..

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "Ed Manuel" <n5em-qrp@msn.com>  
Subject: [16010] Ideas on Mobile Antenna  
Message-ID: <UPMAIL06.199703291918060861@msn.com>

LB and the antenna gurus out there.

Just got my next car (as opposed to NEW one, which is isn't) and would like your ideas on a mobile antenna for 20 (or could be for 17 or 15).

I am working on a GM-20 which I intend to run SSB mobile on 20 meters at the 3-4 watt PEP level output of the rig. (No negative comments, please - anything is possible with QRP!)

Now for the hard part. I have to park my car every day in a garage with the typical 6' 6" height restriction. On the open road I'd use a Hamstick, no question. But normally, I have to live with that clearance. If it's taller than that, I'll cream it WHEN I forget to take it off (not IF).

So, I have a standard 3/8" x 24 tpi mount on the trunk lip. That gives me about 3 ft. of height to work with. I have run a 3 ft. CB whip cut down for 10 meters very sucessfully (mostly a helically wound fiberglass tube). No, it doesn't compare with a Hamstick. But, I have made many nice QS0s that I would not have made with no antenna (the normal, day to day option) using my HR-2600 (not exactly QRP but close).

I have given it some thought and am considering a 2 ft. straight section (probably a large copper conductor inside a piece of 1/2" fiberglass tubing I have), followed by a high-Q inductor, followed by a small capacity hat (probably a couple of rods), followed by a 12 " stainless steel whip (small diameter like on a Hamstick).

Other options would be a completely helically wound 3 ft. fiberglass section; a 2 ft. helically wound fiberglass section with a 12 " whip.

Given that I can't park my car outside the garage, any ideas from the gang. This would be strictly a mono-band solution, though many might want to use this idea for 20, 17, or 15 meters as well. Also, an arrangement that could be used for all three bands, as well as 10 meters might be very popular with



the new SGC-2020 due for the fall.

I have seen a couple of commercial antennas designed for the new all banders but they strike me as inefficient with small coils. I just know that QRP-L can do better :-)

Ed Manuel, N5EM  
n5em-qrp@msn.com  
Houston, Texas

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: kb0rol@juno.com (Bradley L Mugleston)  
Subject: [15954] Jim Duffey  
Message-ID: <19970328.205512.7767.5.kb0rol@juno.com>

Jim,

My QSL to you from the Feb 13 fox hunt just came back. I need your address.

de KB0ROL, Brad

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: optics3d@ix.netcom.com (Ronald D Lucier)  
Subject: [15982] Lessons Learned - MFJ 9020  
Message-ID: <199703291544.JAA09303@dfw-ix1.ix.netcom.com>

In the "For What It's Worth" column....

Through an equipment for equipment trade I ended up with an MFJ 9020, its tuner, keyer, audio filter etc. Rig was working fine with about 2 watts out. I began to get reports that the rig was drifting. Indeed, I did need to slightly change my frequency to stay on top of the other person. Yesterday, I received a report that the signal was chirpy, sounded like RF and at times sounded clear & clean, and was still drifting. I couldn't let those comments pass so I dismembered the rig.

I started checking voltages per the manual - they were all kinda strange and off a bit. Then I had the compulsion to see if any of the IC's in the TX section had worked loose. THEY ALL HAD - Just a bit. They creaked when reseated. I have experienced all sorts of problems in other components when the chips get loose.

I cranked the rig up, and listened to the signal on another rig. It's

now clear in tone and doesn't drift.

Based on this I am considering getting rid of the IC sockets and soldering directly to the board. This will make replacements more difficult but as I travel with the rig quite a bit, perhaps prevent future field repairs.

Has anyone else experienced this? Any other suggestions as to how to deal with this or should I just be prepared to periodically reseal the chips if I don't solder them in. Any comments would be appreciated.

73 de Ron, WA1UWZ

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "Claton Cadmus" <aplitech@Spacestar.Net>  
Subject: [15998] Minnesota QRP Society Meeting Change.  
Message-ID: <199703291758.LAA07040@Spacestar.Net>

CLUB MEETING AND OPERATING EVENT!

Visitors welcome!

The Minnesota QRP Society meets this Saturday April 5th at a special location, the Pavek Museum of Broadcasting in St. Louis Park, MN. This is not far from the Edina Library meeting location so travel time will be about the same. The Museum address is 3515 Raleigh Ave. So. Take Hwy 100 to the 36th street exit in St. Louis Park. Go east on 36th, it's not far from the Hwy 100 overpass. Raleigh is one block past the back of the Target Store, turn north (left) 1/2 block. There's a Tribander on a tower.

If the weather isn't bad we will be setting up equipment and operating from the parking lot. Come about 12:00, the 'official' meeting will be at 2:00pm. Bring rigs, antennas, folding tables and chairs to setup operating positions. But bring what you want to check out and what you may be willing to let the club use for Field Day.

If the weather is bad, we will meet inside at 2:00pm and tour the Museum.

----

73 de KA0GKC Claton Cadmus  
E-mail cla@spacestar.net  
TCP/IP ka0gkc@ka0gkc.ampr.org  
Ask me about the Minnesota QRP Society!  
<http://www.spacestar.net/users/aplitech/mnqrp/>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: pelt@vt.edu (Randy Pelt)  
Subject: [16000] MJE 350 Pinout???  
Message-ID: <199703291819.NAA07473@sable.cc.vt.edu>

Can anybody tell me the pinouts for an MJE 350 transistor? I know the middle leg is ground, but I don't know which legs are the E and C.

Help is appreciated

Ranson J. Pelt 310 Rucker Rd  
W4WYT Blacksburg, VA 24060  
pelt@vt.edu

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Joe Gervais <vole@primenet.com>  
Subject: [15966] More 30m DX  
Message-ID: <199703290731.AAA04479@usr08.primenet.com>

Howdy Folks,

Don't know how common Micronesia is on the air, but I just got a 559 from V63DA (Hiro) at 0700 UTC tonight on 10.107. And after listening to a few more QSOs, I even managed to get his QSL manager right. ;-) Darn near passed him up thinking he was a Canadian! Not that I avoid our friends to the north (congrats on the SWL-30 QSO, Bruce!!!), but tonight I was looking for the trans-Pacific stuff.

OK so I used a QRP+ instead of a 38-Spcl, but listening to you guys have all the fun got me all worked up. :-)

I've been trying an experiment - I call all DX stations with /QRP. So far so good! Seems that DX ops like the underdogs. Woof!

Cheers es gud dx de AB7TT/QRP,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's not much a cheese shop, is it?"

"Oh, finest in the district sir!"  
"And how, pray tell, did you come that conclusion?"  
"Well, it's very clean sir!"  
"It's certainly uncontaminated by cheese..."

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Joe Everhart <n2cx@voicenet.com>  
Subject: [15984] More Rainbows on their way!  
Message-ID: <199703291601.LAA22114@mail3.voicenet.com>

Gang,

Wow, I just got a partial shipment of Rainbow pc boards!  
Hurriedly enveloped about 50 of them and they will go to  
the post office today. They close at noon, so I couldn't  
do 'em all today.

As of today, orders through # 200 will have been mailed.  
Another 30 or so will follow on Monday (or Tuesday if the  
p.o. is closed on Monday).

The remainder of the first build awaits delivery of more  
pc boards so it shouldn't be long.

they guys at the Post Office shudder when they see me  
coming!

BTW, see the other e-mail I'm sending for an update on  
construction notes for the Rainbow kits.

For NJQRP,

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com  
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "Len W. Tough" <len@infinet.com>  
Subject: [15973] NEW KIT from CQrp - Info available on web site  
Message-ID: <199703291409.JAA25683@mail1.infinet.com>

Hi Gang.

For those interested in the CQrp Mrx-40 mini receiver, we have set up a spot on the CQrp web site for information and SOON a photo of the prototype.

Bookmark the following

<http://www.infinet.com/~len>

follow the links to Mrx-40

ordering info is there as well.

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: bachmann@ari.net  
Subject: [15960] Organic core solder  
Message-ID: <199703290459.XAA02979@mtolympus.ari.net>

For the past year or so I've been using Kester 63/37 organic core solder which defluxes with water. The flux is more aggressive than the stuff I used to use and it always wets out. On the NC38S, I had to deflux the component side of the board as well as the solder side, especially around the 74HC240. It cured most of the transmit instability that required frequent readjustment of the trimmer cap in the transmit section. Denatured alcohol was used instead of water because I didn't want to put water near the trimmer caps. Compressed air and a hair dryer were used to eliminate the denatured alcohol. Since the instability got worse with time, I wonder if the minute amount of water soluble flux on the component side was absorbing moisture from the air. Has anyone else had any experience with this?

73, Rich, N3SLR, Baltimore, MD

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: bachmann@ari.net  
Subject: [16026] Organic core solder  
Message-ID: <199703292223.RAA20337@mtolympus.ari.net>

Cameron,

Thanks for the email. I stumbled across the kester homepage <<http://www.kester.com>> and downloaded the data sheets for a number of kester solders. It confirms that the 331 organic core is more active than any of the rosin cores. For the kester "88" highly Activated Rosin Flux Cored Solder it states "Kester '88' activated rosin flux is used for applications where organic flux residue is too corrosive and conductive and a more active flux than normal activated rosin flux is required". I didn't realize that the organic stuff was more active than the highly activated rosin core.

I've been defluxing the solder side of my boards since I started using the organic core. I've only been defluxing the component side if the manual specifically says to do it. I had defluxed the component side of the NC38S but evidently had not done a good enough job under the dips. Until now I didn't realize that I should be defluxing the component side of the board as meticulously as the solder side.

Thanks again for the email.

Rich, N3SLR, Baltimore, MD

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: n0tu <n0tu@webaccess.net>

Subject: [15994] PCB Flux not Solar

Message-ID: <333D4B1A.54B4@webaccess.net>

What is the chemical to use to clean off PCB's after you finish building 'em? I see cans of flux remover in stores...they seemed a little pricy...is there a common chemical that does the job??? Steve

-----  
"Just doing it" - Havin'a blast buildin'& usin' QRP gear that is...

n0tu/hw8/49er/SW40/38s/solar/backpack-mobile... QRP-L # 911

My homepage - <http://www.webaccess.net/~S&P> ARS# 206 CQC# 394

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: k4wz@juno.com (RON L TODD)

Subject: [15970] PIXIE2

Message-ID: <19970330.081719.13895.10.k4wz@juno.com>

I built a Pixie2 and it works...HI

The receiver picked up broadcast at night and day very well. any filtering suggestions ?

Made one contact with it...  
Thanks Ron

RON TODD K4WZ ex AE4LQ, KE4RZR, WA4EPC  
K4WZ@JUNO.COM OR K4WZ@WORLDNET.ATT.NET  
FISTS #2109, ARCI # 9273, QRP-L # 924 ARRL LIFE MEMBER  
FT-1000D, QRP+, HOMEBREW TEN-TEC 40 M, PIXIE2.  
ANT. C4XL UP 100 FT. 80 M LOOP UP 45 FEET

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Mark Saunders <tracker@dancris.com>  
Subject: [15991] QRP Activity on 15m?  
Message-ID: <333D43E5.73CD@dancris.com>

Hi gang,

Is there any QRP activity on 15 meters? I've been there (21.060 and 21.110) listening and calling CQ, but no answers. I know the sun spot god has not been kind of late, but I would think I should hear something, even if it is only a QRP signal. I'll keep trying.

Best regards,

Mark Saunders -- KJ7BS  
Glendale, Arizona

<http://www.dancris.com/~tracker/tracker.html>  
tracker@dancris.com

KJ7BS@KC7Y.AZ.USA.NOAM

FISTS # 2972 QRP-L # 1028

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Joe Everhart <n2cx@voicenet.com>  
Subject: [16007] Rainbow Tuner construction notes  
Message-ID: <199703291913.0AA01127@mail3.voicenet.com>

Group,

I have a few things to pass on about building your Rainbow kits.

1. To give best performance at low power levels, the detectors in the SWR bridge are germanium 1N34 types. They are somewhat fragile

when you are bending the leads. The manual warns about their fragility, but learning how to do it is an acquired talent. (That means that you might have to bust a couple before you learn how to do it!) If you do happen to break one, you can get a replacement at your local Radio Shack. They sell them in packs of 10 for less tha \$2.00.

2. We have been working with the pc board vendor trying to get the holes for the 9 external connection terminal pins just right. Early boards had holes that were a little tight. The manual tells you to press them firmly into the holes until their shoulder is flush to the board. On early boards the holes are a little tight. You can either drill them out with a No. 56 drill or jsut press them in as far as they will go and solder them in place. having the shoulder on the board is not mandatory.

Recent boards may have terminal holes that are slightly oversized so the pins ar not a tight fit. In this case the best installation procedure is to put the pins into their holes and hold them in place with cellophane tape until they are soldered in place. Once soldered the stay just fine.

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com  
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Wa2eaw@aol.com  
Subject: [16020] ref. & dir.for Vert. ant.?  
Message-ID: <970329163538\_1683036028@emout19.mail.aol.com>

Hello to all;

I have been using my HB 20 M vert. in the field with the HW 8. with good results.

Concept: I would like to enhance the gain of the antenna by using either a reflector . and or director; of wire;( easy to take along) to



be hung parallel to the  
radiating element.

Question; Since the verticle is a 1/4 wave; how far from the radiating  
element must  
the reflector or/and the director be spaced. The Atlantic Ocean  
is the  
ground as this is done at the beach.

I keep thinking that in a Yagi the spacing of the director and the reflector  
from the  
active element is in managable distances for what I have in mind, which is to  
place a wood dowel across the top of the verticle ( like the cross of the  
"T") and hang the director and reflector from the dowel ends. If this is  
workable then the verticle with the  
parasitic elements can me rotated. It sounds like to nice an idea to be  
workable.

Any direction ( no pun intended) would be appreciated.

tnx in advance; 72 de WA2EAW....Bob

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Ed Tanton <n4xy@avana.net>  
Subject: [15957] relationship between ant resonant freq & height  
Message-ID: <3.0.1.32.19970328234350.009c08d0@tiger.avana.net>

Capacitance, ground effects, whatever it is: generally an antenna's  
resonant frequency rises when an antenna's distance from the ground (e.g.  
height) is increased.  
72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX  
189 Pioneer Trail  
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140  
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA  
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Brian K7ON Short <ke7gh@primenet.com>  
Subject: [15996] SGC/Index Group Buy?  
Message-ID: <3.0.1.32.19970329173038.006ec470@mailhost.primenet.com>

As a QRP newbie (and wannabe), I've noticed your tendency toward "Group Buys" even a QRP+ purchase in 1994 (I think).

Since nobody owns the SGC/Index rig and there is likely to be interest...I propose SOMEONE (with contact info from last time) form a "Group Buy." of the 2020.

Perhaps QRP-Lers can be first to own this new (commercial) marvel if reservations are made now?

What do you think? -Brian k7on@qsl.net

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Brian K7ON Short <ke7gh@primenet.com>  
Subject: [15979] SGC/Index Merger?  
Message-ID: <3.0.1.32.19970329145312.006f1348@mailhost.primenet.com>

Had (another) strange telephone call yesterday...

Guy says hid friend received literature in the mail announcing the merger of SGC and Index. Also, said they are releasing a \*NEW\* QRP rig like the QRP+, but smaller and adjustable up to 20w output for \$595.

Anybody tell me (us) more?

Brian Short 1994 E Laguna Dr Tempe, Az 85282 (602)839-3484 k7on@qsl.net

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: n4js@amsat.org  
Subject: [16018] Sierra Power  
Message-ID: <XFMail.970329161901.n4js@amsat.org>

Just finished tuning my last Sierra modules. I was pleased to get 2.5 watts out on 15M, BUT I could only get 1.5 on 20, and 1 on 160 (which is a Wilderness module, the rest are original NorCal). I also couldn't get ANY output on 30M. I must have messed that one up. I have continuity in the toroids (didn't fail to

strip wires), so I guess it's something else. Oh well, it's great on 80, 40 and 15 anyway.

0, and 1 on 160 (which is a Wilderness module, the rest are original NorCal). I also couldn't get ANY output on 30M. I must have messed that one up. I have continuity in the toroids (didn't fail to strip wires), so I guess it's

Sent at 16:19:01 on 29-Mar-97

|                                                                     |                |                         |
|---------------------------------------------------------------------|----------------|-------------------------|
| John L. Sielke                                                      | n4js@amsat.org | n4js@pobox.com          |
| n4js@n4js.ampr.org                                                  | NJ Grid:FM29LN |                         |
| <a href="http://www.pobox.com/~n4js">http://www.pobox.com/~n4js</a> |                |                         |
| NJ-QRP #57                                                          | QRP-L #884     | QRP-ARCI #9328          |
| NE-QRP #507                                                         | G-QRP #9544    | NorCal QCWA FISTS #2781 |

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: ka7you@juno.com  
Subject: [15955] simple antenna question  
Message-ID: <19970328.203506.7975.4.KA7YOU@juno.com>

I am trying to find a printed reference to what happens to the resonant frequency as the antenna height is moved from ground level to the operating position. (~1/4 wavelength) I've looked in several references (including the handbook and antenna book, among others). I know I've seen a plot somewhere, but I cant find it.

The subject came up while our club was putting up an 80m dipole for the county Emergency Operating Center. We have one end up about 60 feet, and the other at about 40 feet (it got caught under a Big tree limb). The lowest SWR we could achieve was at the design frequency of 3.9 MHz. It was about 1.6 : 1 using an MFJ-259 analyzer and lowering, trimming, and raising it several times. We fed it with 100 feet of RG-8X to keep the weight down.

In case someone wants to know, we used (free) #12 insulated stranded wire for the antenna, but I would have expected a little lower final SWR.

Thanks,

Rod Johnson KA7YOU

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: bachmann@ari.net  
Subject: [15956] T2FD bibliography  
Message-ID: <199703290431.XAA02331@mtolympus.ari.net>

I've been gathering information on the T2FD for a long time, intending to build

one and to model it with EZNEC. It is one of a half a million other things on my list. So far, I've made the 390 ohm terminating resistor, computed the x,y,z coordinates for EZNEC, and gathered all the articles I could find on the topic.

These are the articles:

1. "An Experimental All-Band Nondirectional Transmitting Antenna" by G. L. Countryman, W1RBK, (W3HH), QST, June 1949, page 54.
2. "Performance of the Terminated Folded Dipole", G. L. Countryman, W3HH, CQ, November 1951, page 28.
3. "A Little Gem for QRP" W. Brandon Randolph, W8VFT, 73 Magazine, May 1984, page 26.
4. "T2FD - The Forgotten Antenna", Guy Atkins, Fine Tuning's Proceedings 1990, page A10.1

The T2FD is also described in several antenna books: Practical Wire Antennas (a RSGB book, I think?) and some of the Joe Carr books.

The reference on the internet given by Peter, KA1AXY, <<http://swl.sds.se/antenn>> contains the information in reference 4.

According to the references, the 30 degree angle with the ground and the 6 foot high lower support are important to the performance of the antenna. IMHO, If a 6 foot high lower support is important, grounding must be important.

On the terminating resistor: In reference 3, the author uses 10 3900 ohm 2 watt resistors between two small disks of copperclad circuit board to make a 390 ohm 20 watt resistor and he used 300 ohm twinlead down to a balanced tuner (a zmatch might be appropriate). Reference 1 states that the terminating resistor should be non-inductive and have a minimum rating equal to 35% of the input power to the final stage. A balanced to balanced transformer (bal-bal ?) to a 50 ohm resistor (from an inexpensive dummy load) might give a workable high power terminator with input impedance determined by the number of turns on the primary. Another alternative: Caddock makes non-inductive power resistors (30 watts or so) in a T0220 package and in a wide range of values. (I've used 50ohm, 1% Caddock resistors to make QRP dummy loads.)

Anyone interested in the references or my XYZ calculations for antenna modelling is welcome to email me privately.

73, Rich, N3SLR, Baltimore, MD

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: n4so@juno.com (CHARLES K BROWN)  
Subject: [15974] TEST  
Message-ID: <19970329.080720.4383.12.n4so@juno.com>

test

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: tahrens1@juno.com  
Subject: [16022] TH 7 DXX  
Message-ID: <19970329.155352.4895.3.tahrens1@juno.com>

Hi folks... a couple of months ago I asked if anyone had a book on the TH7DXX, and got a couple of nice replies... well, I lost the information that Hy-Gain had sent me, so I'm here with hat in hand... again! If anyone has the layout (with dimensions), and could FAX that single page to me, I'd be much appreciative.

If anybody has that page, and can help, please let me know.

Thanks.. again!

Tim W5FN

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: tahrens1@juno.com  
Subject: [15964] Where did the bands go?  
Message-ID: <19970329.003747.4895.0.tahrens1@juno.com>

Boy, sure seems the bands are crummy tonight..  
80 is extremely noisy, & few signals,  
40 is taken up (down past 040) with ssb contests..  
did have a real nice qso with K2FX for about 30 minutes..  
a few other sigs...  
30 kinda dead

oh well, to bed!

cu

Tim W5FN

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
Subject: [15950] WWW 2K  
Message-ID: <199703290155.SAA28885@lynx.csn.net>

Today my web site took its TWO-thousandth hit. Ouch! Hit me again! I reported having achieved "www 1K" on February 7th, so that makes a thousand hits in 49 days, or, um [mutter] about 20.4 hits per day. Probably the .4 hits were people who realized they were in the wrong place, or maybe it was kind of like Chuck's Novice/Tech foxes?

Anyhow, thanks to all the QRP-L folk who have visited <http://www.mtechnologies.com/mthome> and the CQC home page therein.

In honor of the occasion, I've done a bit of updating and you will find some NEW KITS listed. I won't say more now because I haven't had time to do the new page properly, but look for an announcement next week. I've added a review of the AADE LC Meter Kit, and I've dug up some new and interesting sites for the CQC Links Page.

Don't forget to check out the MONTHLY SPECIAL OFFER which expires Monday (but which will be replaced by a new one).

Wonder how fast we can get to 3K....

73  
Marshall Emm  
AA0XI/VK5FN  
[aa0xi@mtechnologies.com](mailto:aa0xi@mtechnologies.com)  
<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Bill Todd <bill@techline.com>  
Subject: [15953] Re: 160 qrp works!!  
Message-ID: <1.5.4.32.19970329033926.0069914c@mail.techline.com>

From: W7LS - Jim in Duvall, WA

How about a QSO tonight (Friday night) at midnight on 1.823 so I can try out a new antenna?

OK Jim ...."Midnight Madness on 1.823" Anyone want to join us?

Msg sent to NWQ-L and QRP-L

CUL, Bill-N7MFB  
Bay Center, WA

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [15952] Re: 50/40/30 Schedule  
Message-ID: <199703290238.TAA12229@dancris.com>

At 04:08 PM 3/28/97 -0800, you wrote:

>Don't forget!

>

>Fifty States on 40 and 30 coming up:

>

>April 1 (local US date) Colorado Marshall W0CQC (special call!)

>

>April 3 (local US date) New York Mark N2VPK and Rick WZ2T

>

>times, as usual, are (UTC):

>

>0000-0200 30 meters

>0200-0400 40 meters

>

>Enjoy!

>

>

And don't forget David KB2WYT on N/T band!

73,

Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP  
ARCI #8918, AK QRP #30, not in any order of importance.

<http://www.dancris.com/~ki7mn>

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "Ed Manuel" <n5em-qrp@msn.com>  
Subject: [15946] RE: Another late Ham Publication  
Message-ID: <UPMAIL06.199703290038580285@msn.com>

I buy it in the store. It is always 3 or 4 months late. Don't blame USPS!  
In fact, on April 1 you can get the ARRL 1996 Publications CD Rom that is  
supposed to have all issues of QEX (and QST and NCJ) from 1996. I think I  
would just get them all in April of the following year for \$20 (I think that's  
right - can't find an ad just now) and be done. Very little in QEX is that  
time sensitive.

Ed, N5EM

-----  
From: owner-qrp-1@Lehigh.EDU on behalf of jmlowman@ix.netcom.com  
Sent: Friday, March 28, 1997 3:44 PM  
Subject: Re: Another late Ham Publication

On 03/28/97 16:28:56 you wrote:

>QEX has consistently been 3 to 4 issues behind for well over a year now.

Has anyone asked why this is? If not, maybe I will.

I'm up for renewal soon, and may pass on QEX if the answer is not  
satisfactory.

72 de Jim - KF6CR

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: jmlowman@ix.netcom.com  
Subject: [15947] RE: Another late Ham Publication  
Message-ID: <199732817519641@ix.netcom.com>

On 03/28/97 23:49:11 you wrote:

>

>I buy it in the store. It is always 3 or 4 months late. Don't blame USPS!  
>In fact, on April 1 you can get the ARRL 1996 Publications CD Rom that is  
>supposed to have all issues of QEX (and QST and NCJ) from 1996.

Right, I got the 1995 CD-ROM; the first year this was done. Been waiting to hear  
a date that the five-year CDs for 1960-64 and 1965-69 will be available. That's  
the time frame when I first became interested in ham radio, and was first



licensed.

BTW, you can get both types of CD-ROM from Duane Heise, AA6EE, at a discount. He sells most, if not all, ARRL publications at a discount. He also sells the "Flying Horse" Callbooks (paper and CD-ROM) for \$39.95 on CD; about \$15 cheaper than ordering direct.

72 de Jim - KF6CR

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: adams@chuck.dallas.sgi.com (Chuck Adams)  
Subject: [15969] RE: Another late Ham Publication  
Message-ID: <199703291309.NAA18267@chuck.dallas.sgi.com>

Jim et.al.,

Another note of interest that I don't remember seeing on qrp-l, but it did appear on the ten-ten reflector. The 'Flying Horse' Callbooks are no longer going to appear in print. Only CD version from now on.

I saw both the International and the US books on sale at 1/2 price book store in Dallas for \$19.95 each. The DX version may be worth the price, but the US version is going to be out of date so fast with all the vanity call sign changes.

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com  
[http://reality.sgi.com/employees/adams\\_dallas/](http://reality.sgi.com/employees/adams_dallas/)  
WIMPS: Qs=000 30m=0 17m=0 12m=0 States=00/00/00

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: jmlowman@ix.netcom.com  
Subject: [16009] RE: Another late Ham Publication  
Message-ID: <199732911755741@ix.netcom.com>

On 03/29/97 13:09:16 you wrote:

>

>Jim et.al.,

>

>Another note of interest that I don't remember seeing on qrp-l,  
>but it did appear on the ten-ten reflector. The 'Flying Horse'

>Callbooks are no longer going to appear in print. Only CD version  
>from now on.

>

>I saw both the International and the US books on sale at 1/2 price  
>book store in Dallas for \$19.95 each. The DX version may be worth  
>the price, but the US version is going to be out of date so fast  
>with all the vanity call sign changes.

Hi, Chuck and guys -

You are absolutely correct. I had heard the same thing earlier in  
the week, and should have noted that in my post...sorry.

To me, it seems odd that the CD-ROM version would have displaced the  
printed version in such a short time. After all, the "Flying Horse"  
callbook first appeared in computer-readable form in late 1995, and  
has had but three editions so far.

I guess the publisher saw the handwriting on the wall. After all,  
computers have dropped so far in price as to be affordable to most  
households. Also, while those of us in the software development "biz"  
consider anything less than a fast Pentium to be a museum piece, I'm  
sure that there are plenty of 386- and 486-based systems available on  
the used market for not much money.

72 de Jim - KF6CR

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: chas@nmaa.org (Charles Kadesch)

Subject: [15962] Re: Antenna Tuners / Baluns etc

Message-ID: <333B3739.73B5@nmaa.org>

Marshall Emm wrote:

> ... Commercial baluns have to be a compromise, and some of  
> them are not a very good one at that! I've never seen any figures on  
> the subject but I suspect that the broader the frequency "bandwidth"  
> of a balun, the lossier it is.

A good source of information on baluns is the "Transmission  
Line Transformers Handbook" by J. Seveck, W2FMI and available  
from Amidon Associates. The author points out there are trade-  
offs in low frequency response for efficiency. The book has  
both theory and construction information. Baluns with 97 to

99 percent efficiency and broad bandwidth with specified loads are described.

A 4:1 output balun (often used in commercial antenna tuners) feeding a ham's typical random length balanced feedline and varying operating frequencies can face a very hostile environment of potential high impedances and high voltages. The book describes baluns designed to function in antenna tuners where high impedances often are encountered. Of course, the methods that Cecil describes such that the output of the tuner or balun sees purely resistive impedances or current maximum points can alleviate these problems.

A QRP tuner I have had good luck matching random balanced feedlines is the Super Tee (W3TS) which employs an input side balun. I also have had great results with the older style link tuners. The classic Johnson Matchbox also has been a favorite here. I am building an early Z match tuner (May 55 QST) to see how it compares with the others. I'll soon have more antenna tuners than QRP rigs - sure is fun.

-72-  
Chas W3KC

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "Marshall Emm" <mgemm@mtechnologies.com>  
Subject: [16003] Re: Antenna Tuners / Baluns etc  
Message-ID: <199703291840.LAA00902@lynx.csn.net>

Hi, Chas--

Thanks for the info.

>>Matchbox also has been a favorite here. I am building an early Z match tuner (May 55 QST) to see how it compares with the others. I'll soon have more antenna tuners than QRP rigs - sure is fun.  
<<

You might like to get in touch with Roy Gregson who is something of a modern-day Z-match guru. His web site (<http://www.isomedia.com/homes/starbuck/emtech.htm>) shows a QRP z-match tuner that he sells as a kit. I used to use a home-made one with a V-beam and home-made 600 Ohm feed, and it worked very well. BTW, FWIW, it included a home-made 1:1 balun [g].

73

Marshall Emm  
AA0XI/VK5FN  
aa0xi@mtechnologies.com  
<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "\"W. Kimura\"." <W.Kimura@valley.net>  
Subject: [15948] RE: Balanced Tuners  
Message-ID: <199703290119.UAA13167@norwich.valley.net>

As a somewhat dissatisfied user of a un-balanced tuner with output "balun" to my balanced feeders, what I believe I need/want is a balanced tuner with an input "unbal" to my rigs un-balanced output.

Kim, N1MVU

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: timcook@erinet.com  
Subject: [15971] Re: Balanced Tuners  
Message-ID: <333D1FAE.18C1@erinet.com>

Hello to the Group,  
Due to the large amount of traffic pertaining to the use of commercial tuners (unbalanced) and balanced lines, I thought I would add my 2 cents worth. I have been using a 135' center fed (with 450 ohm ladder line, approximately 60 feet long) antenna for the past 11 years or so and up to now thought I was getting very good results. I have been using various "garden variety" tuners with built in 4:1 baluns (Ten Tec. MFJ, Dentron, Drake, Nye, Heath) to make whatever radio I happen to be using at the time happy. The antenna is only about 30 feet high. I have worked DXCC and WAS QRP with this antenna and have no problem with day-to-day QRP qso's. I guess my point is that technically there are always pro's and con's to any RF/Electrical system, but in my opinion, we sometimes we get too wrapped up in the "numbers" and lose sight of what's actually important. Does it work? I had a E.F. Johnson 250w matchbox and compared it to my Dentron Super Tuner Plus. There was absolutely no noticeable improvement in receive signals nor did I notice any change in the reports I was getting. However the Dentron covered 160 and the matchbox didn't, so I sold the matchbox. Maybe the efficiency isn't as

good, but does it matter? I think not. This is not intended to flame anyone, any group, or insult anyone's technical ability. I certainly would not want to get into a technical battle with many of the individuals who frequent this group, but I notice that there are many newcomers on board and I'd hate to see them get all "wrapped around the axle" over the technical merits of certain antennas and tuners. Just thought I would add my experiences to the discussion.

72/73

Tim

NZ8J

G-QRP, ARCI-QRP, MI-QRP, NORCAL, NE-QRP, QRP-L

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: "Steve Hurst" <shurst@magiclink.com>  
Subject: [15975] Re: Got the new kit bug.  
Message-ID: <199703291429.JAA124705@nss2.CC.Lehigh.EDU>

Jess,

I think you may be a good candidate for "kit builders anonymous" , KBA !  
Call as soon as possible and get treatment quickly !!!! 1-800-build-it .  
Put down that soldering iron young man and no one will get hurt !!!!! :-)

73,

Steve Hurst

KA7NOC

<http://www.magiclink.com/web/shurst>

38S (300mW)

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997  
From: Brian K7ON Short <ke7gh@primenet.com>  
Subject: [15977] Re: Got the new kit bug.  
Message-ID: <3.0.1.32.19970329144507.006ee534@mailhost.primenet.com>

Jess,

The little guy on the other shoulder here...  
Don't listen to him. C'mon you can build just ONE more kit!  
Everybody else is building kits. Heck, lots of guys built a lot more kits than you. You can handle it! 1-800-Gud-Kits

At 07:30 AM 3/29/97 -0700, you wrote:

>I think you may be a good candidate for "kit builders anonymous" , KBA !  
> Call as soon as possible and get treatment quickly !!!!! 1-800-build-it .  
>Put down that soldering iron young man and no one will get hurt !!!!! :-)

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [15997] Re: Handbook vx. CD-ROM

Message-ID: <333f5185.57023969@smtp.usit.net>

Thanks for all the responses to my inquiry on the CD-ROM Handbook contents. Haven't decided exactly what to do -- since we live with the in-laws, space is at a premium, so I'm leaning toward the CD-ROM. Plus, it gives me a new "thing" to do on the computer. I don't control the easy chair/TV, so I spend most of my free time in front of the screen.

72 es 73 de=20

Marty, KM7W

-----  
Jackson, Tennessee

e-mail: mdwatt@usit.net

<http://www.public.usit.net/mdwatt>

"The Curmudgeon's Corner"

NorCal #???? - ARCI #7514 - QRP-L #953 - AK/QRP #098 - Grid EM55oq  
~~~~~

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: Hank Kohl <k8dd@contesting.com>

Subject: [16024] Re: Handbook vx. CD-ROM

Message-ID: <2.2.32.19970329220610.006931a4@tir.com>

At 04:50 AM 3/29/97 GMT, you wrote:

>With the upcoming Tupelo hamfest, I may find the 1997 Handbook or
>the CD-ROM pretty cheap. Anybody know if the CD-ROM is the complete
>1997 text? or an earlier model?

It would seem that it is complete text and pictures. I picked up the 1995 ARRL Periodicals CD-ROM last year. It is a complete QST QEX and NCJ. I thought that it was going to be great, but after "cruising" it for a couple hours and several times since, I'd rather drag the magazines out. With the CD-ROM you can't see the diagram and text at the same time like you can with

the paper copy. Guess you could print the page(s) but then you're back to paper. The CD is great at Field Day and portable when you don't want to carry the paper volume(s), but then you have to carry the laptop to read the CD!

Catch 22, isn't it?

I want the CD and the printed copy!

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS (k8dd@tir.com)
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: "Marshall Emm" <mgemm@mtechnologies.com>

Subject: [16023] Re: Ideas on Mobile Antenna

Message-ID: <199703292158.0AA09506@lynx.csn.net>

Hi, Ed

I have pretty much the same problem, and my solution is to use hustler antennas with a quick-release. I haven't tried the "foldover" version yet, but probably will soon as I am getting tired of taking the antenna off to put the car in the garage, then stopping to put it on when I go out [g].

BUT, I do want to say that the hustler (at least on my car) seriously out-performs the hamsticks.

I suspect with SSB in particular you are going to need every bit of antenna you can get away with and while what you are suggesting will no doubt adhere to my first law of antenna construction (Anything will work as an antenna to some extent, and nothing will work as well as it should), I think you will be better off with more wire even if it is less convenient.

73

Marshall Emm

AA0XI/VK5FN

aa0xi@mtechnologies.com

<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Phil, K6LS" <k6ls@amsat.org>
Subject: [16002] Re: MJE 350 Pinout???
Message-ID: <333D53B7.1ACF@amsat.org>

Randy Pelt wrote:

>

> Can anybody tell me the pinouts for an MJE 350 transistor? I know the
> middle leg is ground, but I don't know which legs are the E and C.

>

MJE350 PNP-Si TO-126

E-C-B

Ic 0.5a

BVcbo 300v

BVceo 300v

BVebo 3v

Hfe 92

Pd 20 w

info per NTE specs

--

73 de Phil, K6LS

CM97QI, Merced County
k6ls@amsat.org
<http://www.qsl.net/k6ls>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Carol N. Wright" <cnw@HiWAAAY.net>
Subject: [15983] Re: NC38S Tuning Range!
Message-ID: <Pine.OSF.3.94.970329094149.5399A-100000@fly.HiWAAAY.net>

On Fri, 28 Mar 1997, Genevieve A. Winkler wrote:

> Hi Matt,

>

> There are three ways to change that tuning range. You can increase the
> inductance of the stock 4.7uH choke by a few turns around it. I wote a

> post about that a few weeks back. Try three turns. If your tuning
> range goes down, you have wound it the wrong way. When you get the
> number of turns which make your rig tune the way you want, put some glue
> on the choke.

>

> A second way is to put a variable cap in series with the higher choke
> value you now have installed. That will cancel some of the inductance,
> and you can set the bottom end wherever you want. This mod also reduces
> your tuning range by a small amount.

>

> The third way is to put a second variable pot in series with the ground
> end of your tuning pot. This will raise the lowest voltage that can be
> applied to the tuning diode, and again reduces your total range, but
> again will allow you to easily set the low end of your range.

>

> 72/73 Dan Winkler N7IVR

>

Hey Dan and Gang,

I am going to try adding some inductance then, my 6.8uH is making the
lower end of my frequ. range. I'm going to try these things until I get
my NC38S setup like I want it. I had my first QSO yesterday. It was with
a WA2KOS on 10.113. The first part of the QSO went fine, we exchanged
names, addresses, and then I started to tell him about my rig.

That is when it happend. My rig started having lots of hash on transmit,
the sidetone didn't sound right, and the transmit was horrible. I told
him I must QRT because of rig problems. I'm not sure what was happening.
It was like TC2 was not tuned. Any ideas? The SWR also went up, high.
So what do you think? At least I know I can make a QSO with it. Hee Hee!
Best 72 DE Matt, AE4JM Agn mni tn timer for the FB help

--

JCARC--ARCI 9178--ARRL--ARRL ORS--Ten Ten 66932--VP 2855--WAS
Matt Wright, ph. (205)228-6547, packet: AE4JM@K4BFT.#HSV.AL.USA.NA
email: cnw@HiWAAY.net snail mail:8679 Co. Rd. 19, Section, AL 35771
Rigs built: Ramsey mini rcvr-40mtrs, NC38S, SW30-40, NC49'er, NC40A with
KC1

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: George Gingell <k3tks@u1.abs.net>
Subject: [15961] Re: Need Cabela's Black Widow Number
Message-ID: <Pine.BSI.3.93.970329004319.5432A-100000@u1.abs.net>

Subject: Re: Need Cabella's Black Widow number

This weekend I get to make the annual pilgrimage to Kearney, Nebraska which has a Cabella's store. Can anyone please give me the catalog number for the black widow pole used for the SLV antenna? Does anyone also know if Vern's coil can be used with the black widow instead of the SD 20? Thanks in advance.

72/73,
John (NU0V)
Urbandale, Iowa

Cabela's 1997 Fishing Catalog Page 27.
Item [K] Black Widow -WW-11-0503 Order Code (020) Price \$ 21.99 each.
ORDER TOLL FREE 1-800-237-4444

Cabela's
812-13th Avenue
Sidney, NE 69160

Yes, it will work with the Vern Wright, W6MMA SLV Coil Kit.

72 es Good QRP Fishin'

G. Danny Gingell, K3TKS

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@abs.net
Maryland Milliwatt QRP Reference Library, (301)572-6789

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Bob Liesenfeld <wb0poq@visi.com>
Subject: [15980] Re: Organic core solder
Message-ID: <333D2C6F.63B92AB@visi.com>

bachmann@ari.net wrote:

>

> For the past year or so I've been using Kester 63/37 organic core solder which
> defluxes with water. Has anyone
> else had any experience with this?

>

I once worked on several dozen satellite scpc rx's that used this kind of solder. They used Motorola synth chips with their associated reference oscillators. The organic solder with it's attendant flux, gave me nothing but trouble with instabililty, intermittants et al. After stripping have a dozen boards, cleaning them up and using rosin core stuff, all was

fine. As a control, I then re-stripped a couple of these and rebuilt with organic flux, whereupon the problems returned. This finally convinced the manufacturer to change to rosin core. All problems ceased after that.

Needless to say, I have no faith in this kind of solder...

--

Genuine E-mail From The Land Of The Everlasting Icicle

Bob Liesenfeld
wb0poq@visi.com

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: kt3a@juno.com
Subject: [16019] Re: Organic core solder
Message-ID: <19970329.161034.5343.4.kt3a@juno.com>

I had submitted a recommendation to use organic core solder as opposed to rosin core in the Air Force suggestion program for environmental reasons. It eliminates the requirement to transport hazardous flux removers.

My suggestion was rejected because the organic core flux was rated as more corrosive than the rosin core. It was not NASA approved either, which did not help my recommendation. I have seen flux residue short out 5 volt power busses in TTL test rigs! Flux is a necessary evil. Clean it all out to ensure success.

Cameron C.R. Bailey <><
Amateur Radio, KT3A
kt3a@juno.com
Mount Wolf, Pennsylvania

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Brian Chesire <BCChesire@worldnet.att.net>
Subject: [16029] Re:Organic Core Solder
Message-ID: <333DA97F.217D@worldnet.att.net>

The organic flux used in this solder is based on citric acid. It was originally developed by Hughes Aircraft (HS301), as an enviromentally safe flux, ie. doesn't require CFC's to remove it.

However: It is not soluble in alcohol. Any residue will

eventually

cause problems. If you used drug store alcohol you're probably alright since it usually has between 10 and 30% water in it.

The recommended removal method is a warm water non-ionic detergent wash

followed by a Deionized or distilled water rinse. We use some kind of detergent that smell like oranges, very strong oranges, and call it the orange julius machine.

Brian WA5PP0

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: tahrens1@juno.com

Subject: [16031] Re: Organic Core Solder

Message-ID: <19970329.175117.4895.4.tahrens1@juno.com>

I've been using some 'Pure Core' from Alpha Metals... it works OK, but you really should totally wash it off... like drowning it! Rinse it under the faucet. For those components that can't take it, solder them on last.. with rosin core & remove with regular flux remover.

One time I did a board with the pure core stuff, not realizing what I did (I should have known... the junk stinks like fish when soldering, and it doesn't 'flow' as well as the rosin core stuff). I tried to de-flux it with the 'normal' genesolv stuff, & it didn't come clean.. then I realized what had happened, & tried to clean with water... nope, some kind of chemical reaction made it really gooey, & didn't come off... to the trash can! Also, DON'T use HOT water to clean it.. cool to warm only.

They each have their place.

cu

Tim W5FN

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: v31ry@ix.netcom.com

Subject: [15995] Re: PCB Flux not Solar

Message-ID: <1997329102041712623@ix.netcom.com>

N0TU wrote:

>What is the chemical to use to clean off PCB's after you finish building
>'em? I see cans of flux remover in stores...they seemed a little
>pricy...is there a common chemical that does the job???

Alcohol works just fine, although you have to brush it a little
bit with a toothbrush if the flux is old.

Acetone works quicker but be sure you don't have any plastic
parts installed! It won't hurt the usual resistors diodes and
caps, though.. Keep it off your hands, as both acetone and alcohol
are 'organic solvents', meaning they go into your skin!

We use both in the Mil-Spec electronic manufacturing
industry.

73 -- Glenn (Lakewood, CO)

"Remember, any tool can be the right tool!" Red Green

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com --SOWP 5558M, QCWA LM, ARRL LM, NCVA--

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Brian K7ON Short <ke7gh@primenet.com>
Subject: [16025] Re: SGC/Index Group Buy?
Message-ID: <3.0.1.32.19970329222614.00704de8@mailhost.primenet.com>

Well, I'm not sure about local "customs" and I'm NOT
sure exactly what this "response" was trying to say,
but I have been an amateur for almost 25 years...

Anyway, I gather from the "response" it is not appropriate
to ask about a "Group Buy" in advance. I have a telephone
and fax machine and have spoken with engineers at SGC about
other matters, so...

I hereby volunteer to organize the said "Group Buy" for the
newly announced 2020 QRP rig to be released September 1997.
This assuming they will provide incentive for such.

How many are interested in the new rig in a "Group Buy" in
September 1997. (Start turning in those aluminum cans!)

Sorry if any parochial traditions have been desecrated!

If I have a rough indication of interest, I'll be happy to contact them and approach them about the "buy." There is obviously no commitment at this stage. Is there interest?

73, Brian k7on@qsl.net (602)839-3484

At 02:07 PM 3/29/97 -0700, you wrote:

>>As a QRP newbie (and wannabe), I've noticed your
>>tendency toward "Group Buys" even a QRP+ purchase
>>in 1994 (I think).

>>

>>Since nobody owns the SGC/Index rig and there is
>>likely to be interest...I propose SOMEONE (with
>>contact info from last time) form a "Group Buy."
>>of the 2020.

>>

>>Perhaps QRP-Lers can be first to own this new
>>(commercial) marvel if reservations are made now?

>>

>I'm going to answer this off line, since, as you say, you are a 'newbie'.

>

>Group buys come about occasionally because there has been enough interest,
>expressed or implied, in a product, and someone steps up to that and
>organizes it. I have never seen anyone request someone else to do it. The
>general trend is either to wait until someone organizes it, or to go ahead
>and do it yourself.

>

>BTW, I don't think the rig is even in production yet, let alone available
>for a group buy.

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: "John C. Anderson" <af9t@cp.duluth.mn.us>

Subject: [15987] Re: SGC/Index merger

Message-ID: <199703291621.KAA12050@CP.Duluth.MN.US>

I requested info on the QRP++ from Index Labs in March and received a flier from SGC this week. Cover letter sez "SGC is presently working with INDEX to develop an advanced version of the QRP PLUS transciever, which will emerge as the SGC Model SG-2020.

The new SG-2020 will be much smaller and lighter than the PLUS and the power will be adjustable from 0 th 20 watts. Several new features will be added to enhance the performance and capability of the unit, including a highly effective noise

blanker!"

They say it will be manufactured and marketed by SGC & target date for delivery is Sept. 97. Spec sheet looks about the same as QRP++ except for VOGAD baseband processing (whatever that is), power output, size 2.5x6x6 inches, weight 24 oz, backlit display, RS-232 hardware interface and passband tuning. Price is given as \$595.

Their web page is www.sgcworld.com but not sure if info is on it yet.

I have no connection with SGC or Index Labs.

ps Ordered Sierra and LDG qrp tuner last week and am looking forward to learning how to wind torroids. Something I had managed to avoid for the last 20 years hamming.

72 de John AF9T

QRP-L#1022

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: tahrens1@juno.com
Subject: [16008] Re: SGC/Index merger
Message-ID: <19970329.130427.4895.0.tahrens1@juno.com>

Anybody wanna swap their 'old' QRP++ for a
6 meter all mode? (FT690)

figured I'd try & cash in on the recent announcement
about the new & improved QRP+++++ ! hehehe

cuall

tim W5FN

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Bill Todd <bill@techline.com>
Subject: [15985] Re: SGC/Index Merger?
Message-ID: <1.5.4.32.19970329155756.00697714@mail.techline.com>

>Date: Sat, 29 Mar 1997 07:56:46 -0800
>To: ke7gh@primenet.com
>From: Bill Todd <bill@techline.com>
>Subject: Re: SGC/Index Merger?
>
>At 02:53 PM 3/29/97 +0000, you wrote:

>>Had (another) strange telephone call yesterday...
>>
>>Guy says his friend received literature in the mail
>>announcing the merger of SGC and Index. Also, said
>>they are releasing a *NEW* QRP rig like the QRP+, but
>>smaller and adjustable up to 20w output for \$595.
>>
>>Anybody tell me (us) more?
>
>Well, I guess the cat is out of the bag guys.
>
>Bruce talked to me about a month ago about this, and again a few weeks ago
at a local Hamfest in Puyallup, WA - but I got the feeling that didn't want
me to make any kind of announcement as yet.
>
>What Brian said is correct. Bruce decided to concentrate on the design of HF
>QRP rigs, rather than be saddled with the production end of the business.
That is why he accepted the offer to have some other company build the
revised version of the QRP+ and related items.
>
>All in all, it seems like a good decision.
>
>I believe that all service work on earlier models of the QRP+ and Companion
will be honored by SGC.
>
>I am not a company spokesman for Index, or for Bruce (KG7ME). Just a friend.
>
>CUL, Bill-N7MFB
>Bay Center, WA

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: ka7you@juno.com
Subject: [16016] Re: simple antenna question
Message-ID: <19970329.124151.7975.26.KA7YOU@juno.com>

Thanks to all, for the responses. Vic Blackwell AD8K led me to the
source I remembered. It was in an old handbook, and I found it on the
first page of the HF antenna section in the 1981 handbook.

Responses were good, and many mentioned possibilities that were not
relevant due to conditions at the time(of course they had no way of
knowing). One mentioned the possibility of bad insulators (we are not
using any :>), just clean dry dacron rope), and others suggested the

trees may be may be detuning the antenna, but while they are in the 'near field' for an 80M dipole, they are at least thirty feet away from both ends. The building above which the antenna is hung, is also wood framed, with a wood shake roof, and no foil backed insulation.

The graph from the old handbook shows the relative feed point impedance of a half-wavelength dipole at various heights. The chart shows a beginning feed point impedance of about 20 ohms at 0.1 wavelength (25-30 feet). The chart rises pretty linearly till about 0.3 wavelengths at about 90 ohms. It looks like the 0.2-0.25 wavelength height relates to about 70 ohms on the graph. At about 3/8 wavelength, the maximum impedance is almost 100 ohms, and then it drops again as the height is raised, until at 0.6 wavelengths (~150 feet) the impedance drops back to a minimum at about 65 ohms.

I've been back to the site, since the first posting, and did a little 'surveying'. The center of the dipole is very close to 60 feet up (maybe a little more, but certainly higher than I originally thought), and that should make the feed point very close to 75 ohms. When I get the second support rope up to it's desired height, the center will rise another ten feet. It will be interesting to see if the SWR changes then.

The 50 ohm to 75 ohm transition could almost exactly explain the 1.6 SWR, but some of the onlookers thought it was not good enough. I told them it would "match" better if I lowered it to 25 or 30 feet above the ground, and they just shook their heads and said "Yea, but you won't get out as well because it is so low". I responded that I would go with the height any day, even if it meant a little mismatch. For the sake of simplicity, we are not contemplating using an antenna tuner, since the antenna is designed for a single 80M frequency used by the State of Washington for emergency communication, and a tuner is just one more item to get messed up by an unfamiliar operator. We could of course design a simple fixed matching network, and leave it in place permanently, but I don't think it will be needed.

Thanks again to all who responded.

7 3,

Rod Johnson KA7YOU CN97AK near Issaquah, Wa. 160M thru 1296 MHz
NWQRP#120 ARCI#7251
QRP-L#844

On Fri, 28 Mar 1997 23:27:34 EST ka7you@juno.com writes:

> I am trying to find a printed reference to what happens to the
> resonant frequency as the antenna height is moved from ground level to
> the operating position. (~1/4 wavelength) I've looked in several
> references (including the handbook and antenna book, among others). I
> know I've seen a plot somewhere, but I can't find it.

> The subject came up while our club was putting up an 80m dipole
> for the county Emergency Operating Center. We have one end up about
> 60 feet, and the other at about 40 feet (it got caught under a Big

>tree limb). The lowest SWR we could achieve was at the design
>frequency of 3.9 MHz. It was about 1.6 : 1 using an MFJ-259 analyzer
>and lowering, trimming, and raising it several times. We fed it with
>100 feet of RG-8X to keep the weight down.
> In case someone wants to know, we used (free) #12 insulated
>stranded wire for the antenna, but I would have expected a little
>lower final SWR.
> Thanks,
>
> Rod Johnson KA7YOU

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: gsurrency@juno.com (Gary L Surrency)
Subject: [16001] Re: sockets vs no sockets
Message-ID: <19970329.112113.7350.1.gsurrency@juno.com>

Ron,

You could solder them in if you wanted the best resistance to vibration and humidity / corrosion. Or, if you want to retain the sockets, buy the best you can get. I recommend the machined pin gold plated sockets. They seem better at resisting ICs "walking" out of their sockets.

Of course, when or if an IC fails (unlikely, unless damaged by lightening or overvoltage damage) it is quite easy to desolder if you simply cut the IC's leads off and then pull the pins out one-by-one. The one thing I like about sockets, is sometimes you want to disable some part of the circuit to troubleshoot or align, like the AGC circuit. And sometimes a substitution of another IC brand may be helpful in getting the maximum performance you are looking for.

I have old rigs 25+ yrs old that have never lost an IC due to age or failure. They are remarkably reliable.

As in most things, it is a tradeoff. Reliability vs serviceability. Decide which is of the most value to you.

72,

Gary Surrency AB7MY
S&S TAC-1(40&80m) and ARK30, OHR100 20m, AT-11 (QRO and QRP)
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH
Az ScQRPions

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: Ed Tanton <n4xy@avana.net>
Subject: [16005] Re: sockets vs no sockets
Message-ID: <3.0.1.32.19970329134626.009d1220@tiger.avana.net>

Hi Gary... I have now and then... but the bulk of the problems I have seen have been with cheap tin sockets... I once maintained an EE lab where there were quite a few of the old single board computers... in the summer it was a twice weekly thing to go around and press the ICs back into their sockets... breaking the oxidation at the same time. I would not consider building a project without machined pin gold/gold-insert sockets.

For really HI-FREQ stuff I have some small insert pins ~0.15 high that require enlarging the hole and then soldering on both sides (to replace the plating-thru) that add VERY LITTLE interlead capacitance. They're also useful for sockets for front-end FETs and the like that get blown sometimes-usually around here from nearby lightning strikes.

For 'ordinary' HF stuff like NE602s as mixers I just use the pins you can get on carriers, abt the same size as IC pins but minus whatever dielectric of a socket.

But the first thing I do with most kits is throw away the tin IC sockets.
72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Bob Follett" <bfollett@ditell.com>
Subject: [15990] RE: Solar Flux This Week
Message-ID: <199703291625.JAA31434@mars.ditell.com>

Gang:

>From NOAA:

<<REGION 8026 (S24E59) IS THE ONLY SPOTTED
REGION ON THE DISK AND HAS SHOWN SLOW GROWTH OVER THE PAST 24 HOURS.
THE GROUP HAS NEW CYCLE POLARITY, WITH MAGNETICALLY NEGATIVE LEADERS
AND POSITIVE TRAILERS. >>

Look at that! a new cycle sun spot!

Should peak on earth on the 31st.

73, Bob

Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 E-mail: bfollett@ditell.com

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: w7rfm@juno.com (John E Hirsch)
Subject: [15981] Re: TEST
Message-ID: <19970329.072556.7446.1.w7rfm@juno.com>

it works!!!

On Sat, 29 Mar 1997 09:11:47 EST n4so@juno.com (CHARLES K BROWN) writes:
>test

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Marshall Emm" <mgemm@mtechnologies.com>
Subject: [15949] Re: Using an Unbalanced Tuner with a Balanced Feedline
Message-ID: <199703290136.SAA27928@lynx.csn.net>

Hi, Bob--

>>baluns. IMHO, however, some of these circuits are much
more efficient than using a separate balun to force
balance into an inherently unbalanced circuit. <<

VERY true. Commercial baluns have to be a compromise, and some of
them are not a very good one at that! I've never seen any figures on
the subject but I suspect that the broader the frequency "bandwidth"
of a balun, the lossier it is.

73

Marshall Emm

AA0XI/VK5FN

aa0xi@mtechnologies.com

<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997

From: Bob Kellogg <ae4ic@nr.infi.net>

Subject: [15958] Re: Using an Unbalanced Tuner with a Balanced Feedline

Message-ID: <199703290447.XAA32699@mh004.infi.net>

Hi Marshall,

At 06:36 PM 3/28/97 +0000, you wrote:

>Hi, Bob--

>

>>>baluns. IMHO, however, some of these circuits are much

>more efficient than using a separate balun to force

>balance into an inherently unbalanced circuit. <<

>

>VERY true. Commercial baluns have to be a compromise, and some of

>them are not a very good one at that! I've never seen any figures on

>the subject but I suspect that the broader the frequency "bandwidth"

>of a balun, the lossier it is.

Frank Witt, AI1H, has a pretty good article on this subject in the Antenna Compendium V. He says that as you move away from the design impedance and frequency of the balun, losses increase dramatically.

-- But, it is more dependent on impedance than frequency. (at least, that's the way I interpret it) In other words, if the balun design impedance is 50 ohms and it sees 50 ohms, it may handle a broad frequency range efficiently. But, if it sees some other impedance, losses increase, especially if the frequency is far from the design frequency.

Of course, when we are trying to use a multiband antenna with a tuner, that's exactly what happens. As we move away from the antenna's resonant frequencies, we move away from 50 ohms (or what ever it was designed for) and balun losses increase.

At this point, I know more about this subject than I understand!!

Thanks for your comments.

CUL,

Bob Kellogg, AE4IC, Greensboro, NC

Prolably, but not nececelery. - Benny Hill
WIMPS: Qs=000 30m=0 17m=0 12m=0 States=00/00/00

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Marshall Emm" <mgemm@mtechnologies.com>
Subject: [16004] Re: Using an Unbalanced Tuner with a Balanced Feedline
Message-ID: <199703291840.LAA00913@lynx.csn.net>

Hi, Bob--

>>At this point, I know more about this subject than I
understand!!
<<

That makes two of us. But we're way beyond a lot of guys who seem to
know nothing at all. And we keep learning [g].

73
Marshall Emm
AA0XI/VK5FN
aa0xi@mtechnologies.com
<http://www.mtechnologies.com/mthome>

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: "Dean T. Miller" <dtmiller@dsminet.com>
Subject: [16012] Re: Using an Unbalanced Tuner with a Balanced Feedline
Message-ID: <9703291957.AA07749@dsminet.com>

Hi Bob,

> It is true that these "Transmatches" are in effect baluns. IMHO, however,
> some of these circuits are much more efficient than using a separate balun
> to force balance into an inherently unbalanced circuit.

I guess this is a subject that puzzles me.

Way back, before the dinosaurs got smaller, I used (all homebrew)
transmitters with balanced outputs. I also used 'true' balanced
tuners when I got rich enough to afford them. They worked fine.

Now, I use unbalanced tuners with either internal or external baluns.
They also work fine.

I can't see any difference in signal strength between the two.

I thought that a balun was simply a transformer, just as a link coupling is. In addition, most baluns have one side of the balanced output connected to the ground side of the unbalanced input. I had thought this was to help reduce static buildup on the antenna, but I could be wrong.

Do you know if a balun is something other than a wideband transformer?

-- Dean -- from Des Moines (KB0ZDF)

From owner-qrp-1@Lehigh.EDU Sat Mar 29 18:03:52 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [15976] Re: Where did the bands go?
Message-ID: <19970329.093743.4679.3.wb2vuo@juno.com>

>From 0230 - 0700Z, the aurora was intense enough that the local VHF
"DX'ers" were working 300 - 1200 mile paths via auroral reflection.
Great for VHF, but no help for 160-40M...
72/73, Keith, WB2VU0

----- Begin forwarded message -----

>From: tahrens1@juno.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Where did the bands go?
>Date: Sat, 29 Mar 1997 01:41:18 EST

>Boy, sure seems the bands are crummy tonight..
>80 is extremely noisy, & few signals,
>40 is taken up (down past 040) with ssb contests..
>did have a real nice qso with K2FX for about 30 minutes..
>a few other sigs...
>30 kinda dead

>oh well, to bed!

>cu

>Tim W5FN

----- End forwarded message -----